

Date: Tue, 22 Mar 94 04:30:44 PST
From: Ham-Space Mailing List and Newsgroup <ham-space@ucsd.edu>
Errors-To: Ham-Space-Errors@UCSD.Edu
Reply-To: Ham-Space@UCSD.Edu
Precedence: Bulk
Subject: Ham-Space Digest V94 #67
To: Ham-Space

Ham-Space Digest Tue, 22 Mar 94 Volume 94 : Issue 67

Today's Topics:

 2-Line Orbital Elements WEA-9403.19.1994
 ARLK011 Keplerian data
 dx on RS-10...
 FAQ Available?
 TF active on A0-13.

Send Replies or notes for publication to: <Ham-Space@UCSD.Edu>
Send subscription requests to: <Ham-Space-REQUEST@UCSD.Edu>
Problems you can't solve otherwise to brian@ucsd.edu.

Archives of past issues of the Ham-Space Digest are available
(by FTP only) from UCSD.Edu in directory "mailarchives/ham-space".

We trust that readers are intelligent enough to realize that all text
herein consists of personal comments and does not represent the official
policies or positions of any party. Your mileage may vary. So there.

Date: 20 Mar 94 13:23:44 GMT
From: agate!howland.reston.ans.net!math.ohio-state.edu!cyber2.cyberstore.ca!
nntp.cs.ubc.ca!alberta!ve6mgs!usenet@ucbvax.berkeley.edu
Subject: 2-Line Orbital Elements WEA-9403.19.1994
To: ham-space@ucsd.edu

SB KEPS @ AMSAT \$WEA-9403.19.1994
2-Line Orbital Elements WEA-9403.19
HR LU7AKC ORBITAL ELEMENTS FOR WEATHER SATELLITES
BID: \$WEA-9403.19

DECODE THE 2-LINE ELEMENT SETS WITH
1 AAAAAU 00 0 0 BBBB.BBBBBBBB .CCCCCCCC 00000-0 00000-0 0 DDDZ
2 AAAAA EEE.EEEE FFF.FFFF GGGGGGG HHH.HHHH III.IIII JJ.JJJJJJJKKKKKZ
KEY: A-CATALOGNUM B-EPOCHTIME C-DECAY D-ELSETNUM E-INCLINATION F-RAAN
G-ECCENTRICITY H-ARGPERIGEE I-MNANOM J-MNMOTION K-ORBITNUM Z-CHECKSUM

TO ALL RADIO AMATEURS BT

DMSP B5B-04

1 05557U 71087 A 94046.08810487 0.00000101 64466-4 0 5676
2 05557 99.1302 271.2998 0054691 41.4940 319.0370 14.23237080157605

DMSP B5C-06

1 06275U 72089 A 94043.58145448 0.00000113 69459-4 0 6656
2 06275 98.6254 259.9974 0037230 261.6379 98.0581 14.22810055101034

DMSP B5D1-3

1 10820U 78042 A 94046.03932775 0.00000177 87583-4 0 3646
2 10820 98.6551 237.5422 0009797 10.8342 349.3042 14.28777806821413

DMSP B5D2-1

1 13736U 82118 A 94047.02963511 0.00000091 38806-4 0 3498
2 13736 098.6319 238.7353 0008727 354.9829 005.1796 14.25611469579540

DMSP B5D2-2

1 14506U 83113 A 94043.48306532 0.00000124 72424-4 0 8665
2 14506 98.3695 219.2545 0011903 179.0920 181.0280 14.23714656531376

DMSP B5D2-3

1 18123U 87053 A 94048.04427424 -.00000196 00000-0 0 3125
2 18123 098.7855 241.5003 0014058 162.1766 198.0438 14.15334286344013

DMSP B5D2-4

1 18822U 88006 A 94048.03168228 -.00000006 00000-0 0 4168
2 18822 098.4546 267.8701 0006544 339.4454 020.6971 14.22927426313439

DMSP B5D2-5

1 20978U 90105 A 94048.08845942 0.00000231 82900-4 0 5169
2 20978 098.6983 111.3429 0079724 157.6860 202.8333 14.32373273167914

DMSP B5D2-6

1 21798U 91082 A 94048.06239186 0.00000160 85084-4 0 1758
2 21798 098.9625 053.6274 0013310 119.4953 240.8130 14.13765141114642

GOES 2 R

1 10062U 77048 B 94044.91764046 0.00000181 25789-4 0 3676
2 10062 28.4191 2.3423 0761928 193.3964 164.5242 13.30796042807866

GOES 3 R

1 07735U 75027 B 94047.96577140 0.00000127 57362-4 0 3682
2 07735 114.9817 056.7234 0040715 192.4938 167.5052 14.21823840977478

GOES 6 R

1 14051U 83041 B 94045.17695222 0.00001914 20866-3 0 4885
2 14051 25.3429 352.7455 1352659 163.1101 201.9315 12.50792293485270

OKEAN 1

1 19274U 88056 A 94047.89924351 0.00000169 21204-4 0 8644
2 19274 082.5168 348.1892 0020890 047.4068 312.9544 14.82089035303260

OKEAN 1 R

1 19275U 88056 B 94045.85612777 0.00000252 32030-4 0 2629
2 19275 82.5170 358.4007 0023949 81.6804 278.7120 14.77324394302422

OKEAN 2

1 20510U 90018 A 94047.76877289 0.00000274 37783-4 0 2654
2 20510 082.5244 296.6799 0018240 222.0501 137.9960 14.78256509213873

OKEAN 2 R

1 20511U 90018 B 94040.18173672 0.00000159 20334-4 0 8639

2 20511 82.5266 307.6777 0017361 265.5410 94.3826 14.75088343212491
 OKEAN 3
 1 21397U 91039 A 94047.97346102 0.00000583 84183-4 0 9667
 2 21397 082.5233 208.0021 0022170 292.7507 067.1947 14.76123763145772
 OKEAN 3 D
 1 21842U 91039 C 94045.84090004 0.00001263 16230-3 0 5651
 2 21842 82.5239 206.1257 0020227 288.0675 71.8331 14.80306886145726
 OKEAN 3 R
 1 21398U 91039 B 94046.46287310 0.00000188 24614-4 0 6656
 2 21398 82.5238 210.6962 0022507 306.4452 53.4677 14.74895009145479
 TIROS 2
 1 00063U 600PI1 94043.56348375 0.00000778 88819-4 0 4621
 2 00063 48.5252 224.5938 0045749 248.3930 111.2115 14.96402064790822
 TIROS 10 D
 1 01440U 65051C 94044.63529445 0.00030785 48911-3 0 5292
 2 01440 98.5290 290.2793 0023036 122.5668 237.7879 15.52987427536715
 TIROS N
 1 11060U 78096 A 94044.70090970 0.00000031 37948-4 0 8651
 2 11060 98.6771 101.9352 0010101 261.4638 98.5392 14.15589441 5768
 NOAA-9
 1 15427U 84123A 94074.03402688 .00000126 00000-0 90853-4 0 7505
 2 15427 99.0656 123.3704 0015705 122.8642 237.4045 14.13597974477046
 NOAA-10
 1 16969U 86073A 94073.99072129 .00000108 00000-0 64636-4 0 6475
 2 16969 98.5121 85.8616 0012156 244.1267 115.8662 14.24872785389191
 MET-2/17
 1 18820U 88005A 94076.18240290 .00000127 00000-0 99308-4 0 2729
 2 18820 82.5456 341.7797 0018514 79.0102 281.3131 13.84711418309624
 MET-3/2
 1 19336U 88064A 94072.89393314 .00000051 00000-0 10000-3 0 2689
 2 19336 82.5411 31.1102 0017651 137.2192 223.0298 13.16965600270718
 NOAA-11
 1 19531U 88089A 94073.96248747 .00000086 00000-0 71361-4 0 5590
 2 19531 99.1660 60.5963 0012728 40.9981 319.2144 14.12967309281919
 MET-2/18
 1 19851U 89018A 94075.85339731 .00000027 00000-0 10933-4 0 2716
 2 19851 82.5182 217.5195 0015409 122.8587 237.3935 13.84358686254919
 MET-3/3
 1 20305U 89086A 94075.88142870 .00000044 00000-0 10000-3 0 43
 2 20305 82.5576 333.8085 0006499 152.2875 207.8581 13.04425109210860
 MET-2/19
 1 20670U 90057A 94075.63449506 .00000024 00000-0 79036-5 0 7734
 2 20670 82.5434 281.9855 0017468 47.7992 312.4642 13.84190213187814
 FY-1/2
 1 20788U 90081A 94076.22426307 -.00000172 00000-0 -85968-4 0 9199
 2 20788 98.8393 99.2948 0013308 265.4548 94.5096 14.01312219180823
 MET-2/20
 1 20826U 90086A 94071.91097536 .00000059 00000-0 40218-4 0 7814

2 20826 82.5228 222.5667 0012920 323.8660 36.1626 13.83574515174445
MET-3/4
1 21232U 91030A 94071.87651682 .000000051 00000-0 10000-3 0 6792
2 21232 82.5362 237.6665 0014715 65.8899 294.3776 13.16460820138681
NOAA-12
1 21263U 91032A 94074.00396538 .00000180 00000-0 10013-3 0 9646
2 21263 98.6278 103.8182 0013418 145.8585 214.3456 14.22379795147143
MET-3/5
1 21655U 91056A 94076.19735930 .000000051 00000-0 10000-3 0 6877
2 21655 82.5556 181.6999 0014730 67.7742 292.4937 13.16828055124353
MET-2/21
1 22782U 93055A 94072.07378319 .000000044 00000-0 26732-4 0 2819
2 22782 82.5479 282.6058 0022877 131.3043 229.0093 13.83002641 26809
/EX

Date: 19 Mar 94 21:11:04 GMT
From: agate!howland.reston.ans.net!math.ohio-state.edu!cyber2.cyberstore.ca!
nntp.cs.ubc.ca!alberta!ve6mgs!usenet@ucbvax.berkeley.edu
Subject: ARLK011 Keplerian data
To: ham-space@ucsd.edu

SB KEP @ ARL \$ARLK011
ARLK011 Keplerian data

ZCZC SK78
QST de W1AW
Keplerian Bulletin 11 ARLK011

Date: 21 Mar 94 11:02:13 GMT
From: agate!howland.reston.ans.net!EU.net!Germany.EU.net!netmbx.de!zrz.TU-
Berlin.DE!zib-berlin.de!news.tu-chemnitz.de!mb3.tu-chemnitz.de!news@ames.arpa
Subject: dx on RS-10...
To: ham-space@ucsd.edu

Yesterday I worked a VE2-stn on RS-10. I'm looking out for some other
dx-stations which would try to make a dx-contact via rs-10.

My QTH is in jo61ab (12E and 51N), near Leipzig.

Everybody is invited to make up a sket. The max. distance from
my QTH covers the east-coast of USA down to Boston. A distance of
5000-6000km from my QTH should be possible.

73's de Karsten - DL3HRT.

Please e-mail to: hansky@igel.physik.th-zwickau.de

Date: Sun, 20 Mar 1994 22:37:04 GMT
From: ihnp4.ucsd.edu!pacbell.com!sgiblab!swrinde!emory!sol.ctr.columbia.edu!
news.unomaha.edu!cwis!pschleck@network.ucsd.edu
Subject: FAQ Available?
To: ham-space@ucsd.edu

In <2mi75b\$8tj@nic.umass.edu> awoodhull@hamp.hampshire.edu writes:

>In Article <2mhttu\$bao@nic.umass.edu> I wrote:

>>I just found such a FAQ in 4 parts, posted in the last week or so to
>>the AX.25 packet network here in the US by KD2BD. As is so often the case
>>with multi-part posts to the ham BBS network only 2 parts made it to my
>>local BBS.

>I was able to find the missing parts on another BBS and I have posted it to
>this group as Sat FAQ Answers, the title under which it was posted to the
>BBS network.

>I presume that further posting is OK with the original authors. What I
>posted seems to be a composite of several different articles and it isn't
>clear who wrote what or who edited the composite document.

Well, if such an FAQ is going to be posted, someone should take
responsibility for doing it (either the original author, or a proxy).
That way, it's clear who is accepting and merging in changes and
feedback. Also, a single poster has knowledge of when it was last
posted, and (hopefully) will post it on a regular schedule (not every
week, but not just once a year either).

Else we may have just a lot of chaos and arguments.

Opinions?

73, Paul W. Schleck, KD3FU
pschleck@unomaha.edu

Date: 20 Mar 1994 22:43:33 GMT
From: ihnp4.ucsd.edu!mvb.saic.com!news.cerf.net!usc!howland.reston.ans.net!pipex!
sunic!isgate!news.rhi.hi.is!bnt@network.ucsd.edu
Subject: TF active on A0-13.

To: ham-space@ucsd.edu

Hello All.

Sunday the 20th of March we put up an ground station for A0-13 to show Amateur radio through satellites in a open house of the Technical School of Reykjavik. There is now a working amateur club in this school that hopes to get fundings to buy a rotor and a FT-736R and put up antenna s for satellite work.

Now we have up a station witch consists of:

FT-736R full-duplex all mode transceiver.
RFconcepts 30w in 100W out amlifier on 70cm.
ARR. preamplifier on 2m.
Yaesu G-5600 az/el Rotor.
Tonna 2x9 elements on 2m and 2x19 on 70cm.

All the equipment comes from TF3TXT and TF3BNT.
We are going to operate A0-13, A0-10, A0-21, A0-27,
from the 20th of march, and hopefully to friday the 25th.

After that I (TF3BNT) and TF3TXT are going to put up our Mode-B gear and be active all summer, Allso look for TF8ITT, Ps. We are going to be active on MODE-S later in the summer. (we hope).
As soon as the weather conditions get better, We will put up our gear and be ready for action. :-)

So I say 73 de TF3BNT

My adress is :

Benedikt Sveinsson TF3BNT
Hateigsveg 2
105 Reykjavik
Iceland

e-mail : bnt@rhi.hi.is

73 CUL on A0-10,A0-13,A0-21,A0-27 and PHASE 3D hopfully someday.

Date: (null)
From: (null)
SB KEP ARL ARLK011
ARLK011 Keplerian data

Thanks to NASA, AMSAT and N3FKV for the following Keplerian data.

Decode 2-line elsets with the following key:

1 AAAAAU 00 0 0 BBBB.BBBBBBBB .CCCCCCC 00000-0 00000-0 0 DDDZ
2 AAAAA EEE.EEEE FFF.FFFF GGGGGGG HHH.HHHH III.IIII JJ.JJJJJJJJ KKKKKKZ
KEY: A-CATALOGNUM B-EPOCHTIME C-DECAY D-ELSETNUM E-INCLINATION F-RAAN
G-ECCENTRICITY H-ARGPERIGEE I-MNANOM J-MNMOTION K-ORBITNUM Z-CHECKSUM

AO-10

1 14129U 83058 B 94076.94757505 -.00000120 10000-3 0 2708
2 14129 27.1879 336.6922 6021613 162.9789 232.4425 2.05878186 52931

RS-10/11

1 18129U 87054 A 94075.40199974 0.00000041 28565-4 0 8828
2 18129 82.9231 37.4191 0010266 287.1702 72.8326 13.72333370337187

UO-11

1 14781U 84021 B 94076.08262229 0.00000387 73489-4 0 6745
2 14781 97.7911 95.1034 0010946 200.8625 159.2135 14.69171604536786

RS-12/13

1 21089U 91007 A 94075.53910009 0.00000057 44794-4 0 6720
2 21089 82.9174 80.1605 0030126 9.5405 350.6312 13.74037277155921

AO-13

1 19216U 88051 B 94072.40935734 0.00000166 10000-4 0 8938
2 19216 57.8759 263.4718 7210812 336.8024 2.5676 2.09719189 12500

UO-14

1 20437U 90005 B 94076.76408208 0.00000078 47269-4 0 9740
2 20437 98.5927 162.7732 0011857 97.5347 262.7183 14.29830939216526

AO-16

1 20439U 90005 D 94076.19336562 0.00000065 42387-4 0 7742
2 20439 98.6002 163.3475 0012127 99.9777 260.2776 14.29885704216451

DO-17

1 20440U 90005 E 94076.22662674 0.00000074 45623-4 0 7739
2 20440 98.6015 163.6736 0012240 99.1450 261.1119 14.30024568216474

WO-18

1 20441U 90005 F 94076.76009072 0.00000050 36422-4 0 7759
2 20441 98.6016 164.2081 0012919 98.9324 261.3326 14.29999789216551

LO-19

1 20442U 90005 G 94076.18464293 0.00000080 47723-4 0 7733
2 20442 98.6015 163.8733 0013183 99.4776 260.7899 14.30094641216486

FO-20

1 20480U 90013 C 94076.44673625 -.00000010 49468-4 0 6690
2 20480 99.0239 245.6518 0540556 187.2385 172.0650 12.83224728192369

AO-21

1 21087U 91006 A 94076.82404168 0.00000093 82657-4 0 4452
2 21087 82.9365 210.2982 0035565 341.4622 18.5235 13.74535946157030

UO-22

1 21575U 91050 B 94075.24420930 0.00000097 47355-4 0 4756
2 21575 98.4400 151.5895 0007108 202.4817 157.6059 14.36899328139730

KO-23

1 22077U 92052 B 94076.18255996 -.000000037 10000-3 0 3704
2 22077 66.0833 112.6185 0011519 310.3641 49.6367 12.86285535 74950

KO-25

1 22830U 93061H 94076.16166154 0.000000077 48244-4 0 2745
2 22830 98.5601 151.1197 0012546 85.4566 274.8057 14.28040646 24568

IO-26

1 22826U 93061 D 94076.69093513 0.000000025 27771-4 0 2718
2 22826 98.6609 153.4175 0010006 113.9173 246.3044 14.27716135 24633

AO-27

1 22825U 93061 C 94076.70330458 0.000000043 35461-4 0 2716
2 22825 98.6608 153.4061 0009542 114.2553 245.9611 14.27613340 24633

PoSat

1 22829U 93061 G 94076.72570023 0.000000089 53672-4 0 2642
2 22829 98.6559 153.4650 0010871 101.9030 258.3374 14.28012006 24644

STS-59

1 99959U 94097.74947238 0.00221188 11303-3 0 76
2 99959 57.0053 276.3038 0009259 269.9963 90.0094 16.19806752 53

Mir

1 16609U 86017 A 94076.52729255 0.00012486 16095-3 0 5324
2 16609 051.6480 285.7565 0014828 039.8907 320.3797 15.58212648461751

Keplerian bulletins are transmitted twice weekly from W1AW.

The next scheduled transmission of these data will be Tuesday,
March 22, 1994, at 2330z on Baudot and AMTOR.

NNNN

/EX

End of Ham-Space Digest V94 #67
